



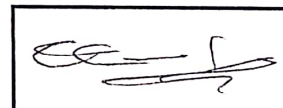
ELIZADE UNIVERSITY, ILARA-MOKIN,
ONDO STATE, NIGERIA

BASIC & APPLIED SCIENCES
BIOLOGICAL SCIENCES
SECOND SEMESTER EXAMINATION
2017/2018 ACADEMIC SESSION

COURSE CODE: BTH 408

COURSE TITLE: BIO-SAFETY, INTELLECTUAL PROPERTY RIGHTS AND BIOETHICS

DURATION: 2 HOURS



NAME:.....MAT. No:.....

INSTRUCTION

Answer any **THREE** questions.

QUESTIONS

1.
 - a. Explain the biosafety levels giving relevant examples.
 - b. Differentiate between biosafety and bioethics.
 - c. Explain the three general categories through which hazards can occur in the laboratory.

2.
 - a. Explain the concept of genetically modified organisms (GMOs)
 - b. Critically analyze with notable examples, the impact of genetically modified plants on human health and the environment.
 - c. Outline the merits and demerits of genetically modified animals.

3.
 - a. What are the four basic principles of bioethics?
 - b. Explain the types of biological safety cabinet.
 - c. What is the major difference between fume hoods and laminar flow hoods?

4. Briefly discuss the moral and ethical issues associated with the following:
 - a. Euthanasia.
 - b. Gene therapy.
 - c. Organ donation.

5.
 - a. What is patent?
 - b. Explain the basis for granting patent.
 - c. Give two examples of patent in biotechnology.